

Active Native Porcine Porcine Calpain 1

Cat. No. CAPN1-65P **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Pig
Source	Porcine Erythrocytes
Description	The activity of Calpain activity is attributed to two main isoforms: n-calpain and m-calpain, which are ubiquitously, expressed proteases implicated in cellular migration, cell cycle progression, degenerative processes and cell death. These heterodimeric enzymes are composed of distinct catalytic subunits, encoded by Capn1 (n-calpain) or Capn2 (m-calpain), and a common regulatory subunit encoded by Capn4. CAPN1 is a calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of the substrates involved in cytoskeletal remodeling and signal transduction. CAPN1 is activated by micromolar concentrations of calcium and inhibited by calpastatin.
Form	Liquid
Bio-activity	≥ 1000 units/mg protein prior to freezing.
Molecular Mass	110 kDa
Purity	Purity by SDS-PAGE: ≥85%
Usage	For Research Use Only! Not For Use in Humans.

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Notes	Centrifuge the vial prior to opening
Storage	-70°C
Storage Buffer	In 20 mM imidazole-HCl, 5 mM β-mercaptoethanol, 1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8.
Shipping	Gel pack

GENE INFORMATION

Gene Name	calpain 1, (mu/I) large subunit [<i>Sus scrofa</i>]
Official Symbol	CAPN1
Synonyms	calpain-1 catalytic subunit; CANP 1; muCANPcalpain mu-type; micromolar-calpain; calpain-1 large subunit; calcium-activated neutral proteinase 1; micromolar calcium-activated neutral protease 1
Gene ID	397027
mRNA Refseq	NM_213972
Protein Refseq	NP_999137
Chromosome Location	chromosome: 2
Pathway	Alzheimer"s disease, organism-specific biosystem; Alzheimer"s disease, conserved biosystem; Apoptosis, organism-specific biosystem

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Function

calcium ion binding; calcium-dependent cysteine-type endopeptidase activity

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